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Biomechanical Modeling of the Human Head for.. - Hagemann, Rohr.. (1999) (Correct) (14 citations)
neurosurgery generally suers from brain **deformations** due to intraoperative changes. These
due to intraoperative changes. These **deformations** cause signi cant changes of the anatomical
of Tada et al. 16] such as to deal with **subsurface** brain **deformation**. The approach is based on
kogs-www.informatik.uni-hamburg.de/projects/imagine/postscript/tmi_AH.ps.gz

Collision and Self-Collision Detection :Efficient and.. - Pascal Volino Nadia (1995) (Correct) (6 citations)
[95] Pascal Volino **and** Nadia Magnenat Thalmann. Collision **and**
www.miralab.unige.ch/ARTICLES/EGCAS95.pdf

Virtual Reality Training Simulation for Palpation.. - Dinsmore.. (1997) (Correct) (4 citations)
Segmentation Model Current Work Image Modeling **Deformation** Laws Figure 1. Model for Medical Training
positions for use in contact detection and **deformation** routines. Because the hand master is not
Reality Training Simulation for Palpation of **Subsurface** Tumors Michael Dinsmore 1 Noshir Langrana
www.caip.rutgers.edu/vrlab/PAPERS/vrais97.ps.gz

Serial Registration of Intraoperative MR Images of the Brain - Matthieu Ferrant Arya (2002) (Correct) (3 citations)
to brain shift. We propose a method to track the **deformation** of the brain and update preoperative images
surface matching algorithm to capture the **deformation** of boundaries of key structures (cortical
spl.bwh.harvard.edu:8000/~warfield/./papers/2002/ferrant-warfield-serial-registration-imri-mec

Intraoperative Brain Shift and Deformation: A Quantitative.. - David Roberts Md (1998) (Correct) (3 citations)
Intraoperative Brain Shift and **Deformation**: A Quantitative Analysis of Cortical
analysis of intraoperative cortical shift and **deformation** has been performed to gain a better
available, low cost vehicle for probing the **subsurface** in order to measure brain movement at depth,

www-nml.dartmouth.edu/~miga/PAPERS/neuro_brainshift.pdf

Tactile Sensing and Control of a Planar Manipulator - Nicolson (1994) (Correct) (3 citations)
Starting with an elastostatic model for the **deformation** of rubber fingers, sensor spacing and depth
A spatial frequency domain model for the **deformation** of an elastic cylinder with a rigid core in
are determined to allow reconstruction of **subsurface** strain fields with insignificant aliasing.
robotics.eecs.berkeley.edu/~nicolson/paperlinks/dissert.ps.Z

Three-dimensional Optical Flow Method for Measurement of.. - Nobuhiko Hata Ph (2000) (Correct) (2 citations)
Flow Method for Measurement of Volumetric Brain **Deformation** from Intraoperative Magnetic Resonance Images
Flow Method for Measurement of Volumetric Brain **Deformation** from Intraoperative Magnetic Resonance Images
cortical surface shift measured was 11 mm and **subsurface** shift was 4 mm. The computed **deformation** field
splweb.bwh.harvard.edu:8000/pages/papers/noby/jcat2000/jcat2000.pdf

A Topologically-based Framework for Simulating Complex.. - Ulisses Mello And (1998) (Correct) (1 citation)
to engineering fields that involve large **deformations**, such as car crash or ballistic simulations.
that evolve through time. The simulation of rock **deformation** through time can be used to determine if the
in an attempt to define the best description of **subsurface** geological structures, or an earth model, as
ftp.impa.br/pub/visgraf/people/roma/papers/IBM_Report.pdf

Serial Intraoperative MR Imaging of Brain Shift - Arya Nabavi Peter (2001) (Correct) (1 citation)
of these surgically induced volumetric **deformations**, or "brain shift"has been well established.
data and characterize the time course of brain **deformations** during surgery. Methods: The vertically
throughout surgery and is mainly due to gravity. **Subsurface** shift occurs during resection involving
spl.bwh.harvard.edu:8000/pages/papers/arya/neurosurgery/nab.pdf

Human Performance Using Virtual Reality Tumor Palpation.. - Noshir Langrana (1997) (Correct) (1 citation)
FEM Mechanical Test Current Work Image Modelling **Deformation** Laws User Interface Image Segmentation Model
The SGI workstation handles collision detection, **deformation** calculations, and graphics display (Figure 2)
need for palpation training in the detection of **subsurface** tumors. A virtual reality training

simulation
www.caip.rutgers.edu/~kemi/paper.ps.gz

Eigth Eurographics Workshop on Virtual Environments.. - Interaction Techniques .. (2002) (Correct)
when an input device (like the cubebased shape **deformation** interface [2]enables direct manipulation of
Direct and intuitive input device for 3D shape **deformation**, Proceedings of CHI, 1994, pp. 465-470. 3.
may be collected to obtain information on the **subsurface** structure. This data must subsequently be
www.cs.usask.ca/faculty/sriram/Papers/EG2002paper.pdf

Research Problems for Creating Digital Actors - Ko, Choi, Choi, Tak, Choe, Song (2003) (Correct)
capture data into linear combinations of a **deformation** basis 16 c The Eurographics (middle and right columns)In modeling the **deformation** basis, we included the artists' modeling
face. Noting that human skin has complicated **subsurface** scattering, Jensen et al. 38 measured the
graphics.snu.ac.kr/publication/euro2003/star2.pdf

Unknown - Engineer Manual Department (Correct)
.4-18 4-14 Section IV **Deformation** and Settlement General
.4-25 4-21 Chapter 5 **Deformation** and Settlement Scope .
www.usace.army.mil/inet/usace-docs/eng-manuals/em1110-1-2908/entire.pdf

Nat.Lab. Unclassified Report 2001/820 - Date Of Issue (2001) (Correct)
skin model, it is chosen to measure **subsurface deformation** during suction. Experiments will be performed
to excite the different skin layers. **Subsurface deformation** will be measured with US, OCT and CM. iv c
on a 4 layer skin model, it is chosen to measure **subsurface deformation** during suction. Experiments will be
www.extra.research.philips.com/publ/rep/nl-ur/ur2001-820.pdf

Symposium no. 34 Paper no. 1843 Presentation: oral 1843-1 - Effect Of Swelling (Correct)
and hydraulic conductivity due to settlement, **deformation** of the clay under the influence of overburden
flow through the restructured soil to a **subsurface** drainage system. The spacing between the
www.sfst.org/Proceedings/17WCSS_CD/papers/1843.pdf

Nat.Lab. Unclassified Report NL-UR - Date Of Issue (2002) (Correct)
Date of issue: March 2002 In vivo sub-surface **deformation** measurements in the human epidermis J.A.M.
NL-UR 2002/809 Title: In vivo sub-surface **deformation** measurements in the human epidermis

In both the tension and shear tests the **subsurface** skin layers showed **deformations** due to the
www.extra.research.philips.com/publ/rep/nl-ur/ur2002-809.pdf

Rendering Deformable Surface Reflectance Fields - Weyrich, Pfister, Gross (2004) (Correct)
and the lack of a 3D geometry model makes **deformations** very difficult or impossible. Consequently,
image-based data set to simulate varying object **deformations**. A key question is how to preserve the visual
inter-reflections, self-shadowing, and **subsurface** scattering. Pure image-based techniques, T.
graphics.ethz.ch/Downloads/Publications/Papers/2004/wey04/p_Wey04.pdf

Estimating Cortical Surface Motion Using - Stereopsis For Brain (Correct)
Surface Motion Using Stereopsis for Brain **Deformation** Models Hai Sun 1 Hany Farid 2 Kyle
models for the recovery of **subsurface** brain **deformations**. We show the e#cacy of this technique on a
to drive FEM-based models for the recovery of **subsurface** brain **deformations**. We show the e#cacy of this
www.cs.dartmouth.edu/~farid/publications/miccai03a.pdf

December2001 NASA/TM-2001(d1(p ARL-TR-2363 The Effects of.. - Everett Jr And (2001) (Correct)
substrate as a shock wave, causing plastic **deformation** and **subsurface** residual compressive stresses.
as a shock wave, causing plastic **deformation** and **subsurface** residual compressive stresses. LSP is reported
techreports.larc.nasa.gov/ltrs/PDF/2001/tm/NASA-2001-tm210843.pdf

A Least Squares Mixed Finite Element Method For - Variably Saturated Subsurface (Correct)
STARKE y Abstract. For the coupling of ow and **deformation** in variably saturated porous media we propose
and variably saturated porous media. The **deformation** is assumed to be linearly elastic. Our
Finite Element Method For Variably Saturated **Subsurface** Flow In Deformable Porous Media Johannes
www.ifam.uni-hannover.de/~starke/papers/blaubeur.ps

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